Vector Introduces New Configurable Test System for Charging Communication Tests

Stuttgart, GERMANY, 2024-02-12 – Vector will be presenting its new product vCTS at this year's E-Mobility Symposium on February 27 in Stuttgart. The vCTS, short for Vector Charging Test System, is a modular test system for charging communications tests. vCTS offers both manufacturers and suppliers of electric vehicles and charging stations comprehensive conformity and interoperability tests to validate charging communication.



The new product is available in several product variants that consider the test requirements of the various charging standards and different charging capacities. vCTS supports the most common charging protocols and standards, such as CCS, NACS, GB/T or CHAdeMO. Thanks to its modularity and the practical interchangeable cassettes, both electric vehicles and charging stations can be connected to the vCTS and tested. The user can also easily switch between AC and DC charging.

The vCTS is part of the Vector E-Mobility test solution, which offers all the necessary components for developing and testing charging communication from a single source. This makes the vCTS the dedicated hardware platform for executing the tests from the CANoe Test Package EV or CANoe Test Package EVSE. Test automation is carried out via CANoe, which controls the hardware and simultaneously generates detailed test reports.

"With the vCTS, we offer our customers a sophisticated and flexible solution for testing and validating charging communication between electric vehicles and charging stations," says Jan Großmann, Manager of the Vector E-Mobility Test Solution. "The vCTS ensures interoperability and conformity."

More about vCTS: www.vector.com/vcts
More about Vector E-Mobility Symposium Europe 2024: www.vector.com/emob-symp



Figure 1: CSS communication tests with a CCS Type 2 charging cable.
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Figure 2: Several product variants of the vCTS with different AC and DC charging capacities and charging cables are used to test the common charging standards
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Figure 3: With the available interchangeable cassettes, electric vehicles and charging stations are tested with one system
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Vector is the leading manufacturer of software tools and components for the development of software-based electronic systems and their networking.
Vector knows the requirements of software and electronics development. And has done so for 35 years. As "simplifiers", Vectorians simplify the technology development of customers worldwide and thus contribute to their success. With modern solutions in the form of software tools, embedded software and cloud technologies. This is achieved above all through a passion for technology and the ambition to always deliver top performance.
Vector worldwide currently employs more than 4,000 people with sales of EUR 1.16 billion in 2023. Vector is headquartered in Germany (Stuttgart) and has subsidiaries in Brazil, China, France, Great Britain, India, Italy, Japan, Austria, Romania, Sweden, South Korea, Spain and the USA.